

## SUPPLEMENTAL RECORDS AND NOTES ON OHIO LEAFHOPPERS.

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During the two years that have elapsed since the publication of the "Leafhoppers of Ohio," with two seasons of good collecting and the assistance of Mr. E. P. Breakey, there have come to notice a number of species not entered as known to the Ohio fauna at the time of the printing of that Bulletin. Some of the species are those confidently predicted as belonging to our fauna and their collection anticipated. Some, however, were heretofore known from distant localities and their occurrence in Ohio not deemed as very probable. More detailed note of these will be given with the specific records.

This opportunity will be taken to revise certain changes in nomenclature and to correct a few errors in the bulletin which have come to notice since its printing.

Some of the additions noted serve to emphasize particularly the fact that distribution records for these insects, as indeed for many others, depend not only on intensive collecting at the proper season but especial reference to the varied hostplants and ecological habitats that support the various species.

*Agallia oculata* Van D. Previously recorded from Little Mt. only.

This species was taken at Williams County by Mr. Breakey.

*Macropsis ruficeps*, n. n. for *M. scutellatus* Osb., which name is preoccupied by the European *scutellatus* Boh. Delaware Co., June 10, 1932; Indian Lake, July 3, 1932.

*Macropsis reversalis* O. & B. (p. 215). Westerville, Franklin Co. (E. P. B.)

*Macropsis basalis* Van D. (p. 216). Westerville, Hudson, Westerville. (E. P. B.)

*Macropsis trivialis* Ball. Ashtabula Co., Columbus, Indian Lake.

*Macropsis ferruginoides* Van D. (p. 216). Westerville. (E. P. B.)

*Macropsis erythrocephalus* G. & B. (p. 216). Indian Lake and Rock Creek. (E. P. B.)

*Macropsis sordidus* Van D. (p. 217). Rock Creek, Ashtabula Co. (E. P. B.)

*Macropsis nigricans* Van D. (p. 217). Westerville, Franklin Co. (E. P. B.)

*Macropsis bicolor* Osb. Ashtabula Co. Heretofore known only from Maine.

- Macropsis suturalis* O. & B. Rock Creek, Ashtabula Co., June 24, 1931.  
*Macropsis tristis* Van D.—Nymphs (p. 217). Rock Creek, Ashtabula Co., June 24, 1931, 2 P. M.  
*Macropsis insignis* Van D. Ashtabula Co.  
*Macropsis osborni* Breakey (Ms.)\* Descriptions from Ohio specimens taken at Arcanum. (O. H. S.)  
*Macropsis cinerea* Breakey, (Ms.).† Descriptions from Ohio specimen taken at Indian Lake. (E. P. B.)  
*Xerophloea majesta* Lawson. Clermont Co., 9-15, J. M. Robinson. Similar to *major* Baker in the broad head.  
*Acocephalus flavostriatus* Columbus (M. V. Anthony). Previously recorded for New York.  
*Xestocephalus coronatus* O. & B. One specimen, Nettles Lake, Williams Co. (E. P. B.) This handsome little species was described from a specimen taken in Iowa and this Ohio specimen is the only other record that I know.  
*Xestocephalus brunneus* Van D. Additional records are Columbus, Williams Co., Ashtabula Co., on Black Locust. (E. P. B.)  
*Scaphoideus melanotus* Osb. Holgate, Logan Co., July 14, 1931. (Anthony).  
*Platymetopius cuprescens* Osb. Adams Co., August 31, 1931. (H. O.) Previous records are for localities east of the Allegheny Mountains. Mr. Breakey took specimens of this species at Dune Park, Indiana, which carries the distribution still farther west.  
*Eutettix southwicki* Van D. (p. 300). Brown Fruit Farm, Delaware Co.  
*Eutettix lurida* Van D. Williams Co. (E. P. B.)  
*Novellina helenae* Ball, Columbus—similar to *chenopodii* Osb., but smaller and with different picture.  
*Stirellus obtutus* Van D. Rockbridge, Hocking Co., October 2, 1931. (H. O.) Taken at the E. S. Thomas shack.  
*Phlepsius incisus* Van D. (p. 311). Brown Fruit Farm, near Worthington, August 15, 1931. (E. P. B.)  
*Phlepsius pusillus* Baker (*collinus* O. & L.) Adams Co. (H. O.)  
*Phlepsius punctiscriptus* Van D. Lynx and Hachelshin Ridge, Adams Co. (H. O.) Hocking Co. (E. P. B.)  
*Phlepsius majestus* O. & B. Near London, Madison Co. (H. O.) September 7, 1931, Hocking Co. (E. P. B.) and, at light, Silver Lake, Bellefontaine, Logan Co., by D. J. Borrer. Previous records for Columbus only.  
*Thamnotettix collaris* Ball (p. 321). Taken at the Urbana bog, Champaign Co.  
*Paracoelidea tuberculata* Baker. Rockbridge, Hocking Co. (E. S. Thomas shack), October 2, 1931. (E. P. B.) Previous records are from pine at points east of Appalachian divide.  
*Empoasca erigeron* DeLong. Recorded by Dr. DeLong for Columbus.  
*Empoasca infusca* DeLong. Described by DeLong as from Columbus, Canal Winchester, Worthington and Carroll.

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\*To appear in Annals Ent. Soc. Amer.

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*Empoasca bifurcata* DeLong. DeLong gives the range of this species as Wisconsin to Northern Pennsylvania and south, so it no doubt occurs in Ohio.

- Typhlocyba gillettei* var. *sincera* McAtee. Ashtabula Co.  
*Typhlocyba gillettei* var. *casta* McAtee. Columbus (H. O.) Madison Co.  
*Typhlocyba nitidula* (Fals.). Ashtabula Co. (E. P. B.)  
*Typhlocyba nitidula* var. *norgueti*. Ashtabula Co. (E. P. B.)  
*Typhlocyba pulchella* McAtee. Ashtabula Co. (E. P. B.)  
*Typhlocyba phryne* McAtee. Ashtabula Co. (E. P. B.)  
*Typhlocyba antigone* McAtee. Madison Co. (E. P. B.)  
*Typhlocyba appendicula* Mall. Williams Co. (E. P. B.)  
*Typhlocyba rubriocellata* Mall. Franklin Co. (E. P. B.)  
*Typhlocyba cymba* McAtee. Little Mt., Lake Co.  
*Erythroneura mediana* Rob. On Elm, Columbus. (H. O.)  
*Erythroneura beameri* Rob. Franklin Co. (E. P. B.)  
*Erythroneura pulchella* Rob. Adams Co. (E. P. B.)  
*Erythroneura rubra* Gill. Adams Co. (E. P. B.)  
*Erythroneura tricineta* var. *diva*. Columbus. (H. O.)  
*Erythroneura tricineta* var. *cymbium*. Franklin Co.  
*Erythroneura tricineta* var. *integra*. Franklin Co. (E. P. B.)  
*Erythroneura tricineta* var. *calycola*. Adams Co., Franklin Co., and Madison Co.  
*Erythroneura trivittata* Rob. Madison Co. (E. P. B.), W. Jefferson, Franklin Co. (H. O.)  
*Erythroneura torra*. Williams Co. (E. P. B.)  
*Erythroneura abolla* McAtee. In Ohio on Honey Locust. (H. O.)  
*Erythroneura brundusa* Rob. Marietta, Oxford. (H. O.) On Honey Locust, Franklin Co. (E. P. B.)  
*Erythroneura crevecouri* Gill. Additional record, Columbus.  
*Erythroneura minor* Beamer. Recorded for Camp Perry by McAtee.  
*Erythroneura scripta* Rob. Franklin Co. (E. P. B.)  
*Erythroneura lacta* Rob. Franklin Co. (E. P. B.)  
*Erythroneura amanda* McAtee. Adams Co. (E. P. B.)  
*Erythroneura osborni* DeLong. Previous record on mistaken identification.  
*Erythroneura* sp. Not *osborni*.  
*Erythroneura aelys* McAtee. Mistaken identification.  
*Erythroneura* sp. Like *aelys*, but with different picture.  
*Erythroneura portea* Rob.  
*Erythroneura ligata* McAtee. Perry Co. (McAtee). Columbus, May 19, 1928. (H. O.)  
*Erythroneura vitis* var. *stricta* McAtee. Perry Co.  
*Erythroneura comes* var. *rubra* Gillette. Perry Co. (McAtee).

Some very interesting records have been secured by Mr. Virgil Argo from collections made at trap lights on the A. I. U. tower in Columbus. These traps placed at an elevation of 425 feet above street level were run for a number of nights during the summer of 1931 and samples of the leafhopper catch were submitted to me for study. These represented collections made

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TABLE I—Continued.

	June 21	June 22	June 23	June 24	June 25	June 27	June 30	June 30 July 4	July 5-6	July 7
<i>Cicadula punctifrons</i>			1	1						1
<i>Cicadula sex-notata</i>	1		1							2
<i>Cicadula</i> sp.?										1
<i>Eugnathodus abdominalis</i>										1
<i>Dikraneura</i> sp.						1				
<i>Dikraneura</i> sp.						1				
<i>Empoasca fabae?</i>		3		4	2	3	3		4	1
<i>Empoasca obtusa?</i>		2								
<i>Empoasca</i> sp.?										
<i>Typhlocyba gillettei</i> var.							1			1
<i>Typhlocyba</i> sp.		1	2			1	1			
<i>Typhlocyba</i> sp.							1			
<i>Erythroneura</i> sp.?										1
<i>Membracidae</i>										
<i>Cyrtolobus</i>								1		
<i>Atymna castanea</i>								1		
<i>Micrutalis calva</i>			1							
<i>Fulgoridae</i>										
<i>Cedusa incisa</i>								1		
<i>Stobaera tricarinata</i>								1		1
<i>Liburniella ornata</i>						1				
<i>Delphacodes propinqua?</i>				1						
<i>Aphididae</i> sps.?			1			1				

It will be noted that *Deltocephalus inimicus* was most numerous and in the catch of every night from June 21 to July 7. *Phlepsius irroratus* was second and represented in all catches except June 21 and 25.

These records indicate extended migration and wide dispersal as well as attraction to light and ability to reach higher strata of air. Some of the species included are rarely taken in collecting; some of them doubtless arboreal and out of reach for ordinary sweepings. Many are willow feeding, some oak and many grass with range from Xerophytic to Hydrophytic in habitat.